

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
25 August 2005 (25.08.2005)

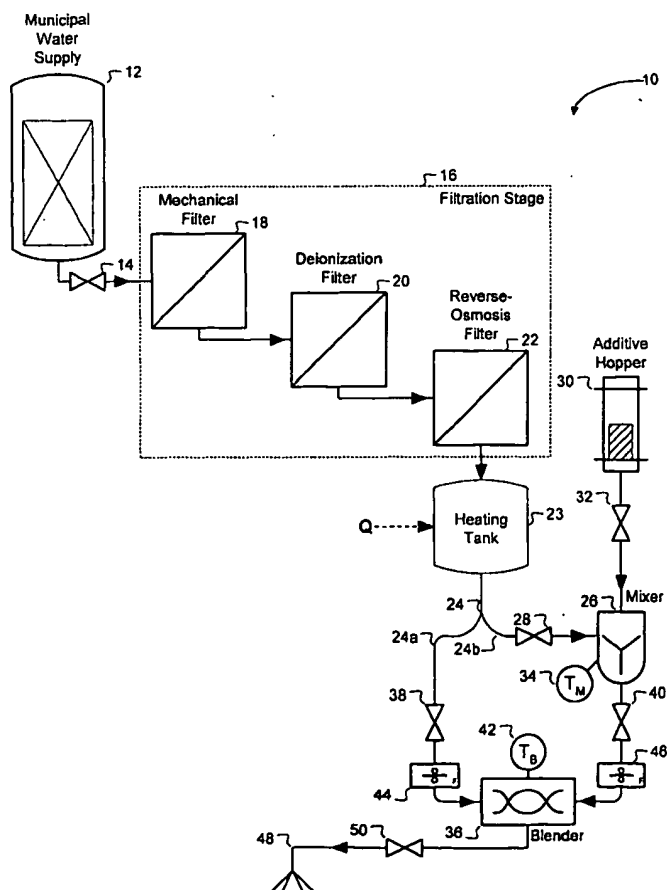
PCT

(10) International Publication Number
WO 2005/077836 A1

- (51) International Patent Classification⁷: C02F 1/68, F25C 3/02
- (21) International Application Number: PCT/CA2004/000204
- (22) International Filing Date: 13 February 2004 (13.02.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (71) Applicant (for all designated States except US): **ORCA BAY ARENA LIMITED PARTNERSHIP** [CA/CA]; 800 Griffiths Way, Vancouver, British Columbia V6B 6G1 (CA).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **HARTLEY, Jason** [CA/CA]; 800 Griffiths Way, Vancouver, British Columbia V6B 6G1 (CA).
- (74) Agent: **ROMAN, Michael J.**; C/o Clark, Wilson, Suite 800 - 885 West Georgia Street, Vancouver, British Columbia V6C 3H1 (CA).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,

[Continued on next page]

(54) Title: METHOD, APPARATUS AND COMPOSITION FOR MAKING ICE



(57) Abstract: The present invention relates to a method, apparatus and composition for making ice. Water is first filtered to a commercially practical level of purity and then an additive is mixed with the water until a desired degree of total alkalinity, hardness, and/or turbidity is achieved. Water so processed has been found to produce, upon freezing, ice having a fast, hard, uniform surface that consistently resists rutting, chipping, cutting, sinking and sintering during use over an extended period of time.



GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*